Paper Repor	tElectronic Data - Email CD (data I	oaded: Yes / No)	Doc/Event#: 41	91						
NC DENR Division of Waste Manageme	ent - Solid Waste		Environmental Monitoring Reporting Form							
	n attached to it are "Public Records" as defined person upon request (NC General Statute 132-		. As such, these documen	ts are available						
 Prepare one form for each indiv Please type or print legibly. 	/idually monitored unit.									
 Attach a notification table with valinclude a preliminary analysis of the 	ues that attain or exceed NC 2L groundwate cause and significance of each value. (e.g. groundwater or surface water values that equ	naturally occurring, off-site s	source, pre-existing con	e notification must dition, etc.).						
	nethane gas values that attain or exceed ex			or nearby the facility						
	statutes Chapter 89C and 89E and NC Solid	Waste Management Rules	15A NCAC 13B, be sure	to affix a seal to the						
	ed form, any tables, and Electronic Data De	liverable to: Compliance Uni	it, NCDENR-DWM, Solid	Waste Section,						
	ta Submittal Information		ing a sama a sama sa	23456						
	boratory, consultant, facility owner):	er-kertrom karradigus bebelari pri	/s	A A						
SCS Engineers, PC			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Solid Waster Solid						
Contact for questions about data	formatting. Include data preparer's name	, telephone number and E	100	~AN 200 13						
Name: Brandon King	Phone: 8	804.598.9480	787	Salid Mass 55						
E-mail: bking@scsengineers.com			1,5	33						
Fasility assess	Facilità Address			20-24, 2006)						
Facility name: North Wake County Landfill	Facility Address: 9004 Deponie Drive	Facility Permit # (.0500 .1600		er 27, 2007						
North Wake County Landilli	Raleigh, NC 27615	32-03	Becamb	01 21, 2007						
Environmental Status: (Check all Initial/Background Monitoring	<u>'</u> '''	Assessment Monitoring	g Correc	tive Action						
Type of data submitted: (Check al Groundwater monitoring data Groundwater monitoring data Leachate monitoring data Surface water monitoring da	a from monitoring wells a from private water supply wells	Methane gas monitoring da Corrective action data (spe Other(specify)								
Notification attached?	<u> </u>									
No. No groundwater or surfa Yes, a notification of values monitoring points, dates, and	ce water standards were exceeded. exceeding a groundwater or surface water salytical values, NC 2L groundwater standard									
Yes, a notification of values values and explosive methar	ause and significance of any concentration. exceeding an expiosive methane gas limit in ne gas limits.	s attached. It includes the n	methane monitoring poir	its, dates, sample						
Certification										
Furthermore, I have attached con levels, and a preliminary analysis	e information reported and statements in implete notification of any sampling value of the cause and significance of concern ing any false statement, representation, or	es meeting or exceeding (ntrations exceeding groun	groundwater standard dwater standards. I a	s or explosive gas m aware that there						
Robert E Dick / SCS Engineers, PC	Project Director	804.598.9480	possibility of a fille al	id imprisoranem.						
Facility Representative Name (Print)	Title	(Area Code) Teler								
Mobert E. D	1/3	Affix NC Lice here:	ensed/ Professional Geo	ologist/Engineer Seal						
Signature	/ Date	}	HINDELH C	AROLINA						
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			THE ERT	E. Dim						

SCS ENGINEERS

January 3, 2008 File No. 02199312.02-2

Mr. Johnny Beal Facility Manager Wake County Solid Waste Management Division PO Box 550 Raleigh, NC 27602

Subject:

Fourth Quarter Landfill Gas Monitoring Event - December 27, 2007

North Wake Landfill - Wake County, North Carolina

Dear Johnny:

SCS Engineers, PC (SCS) is pleased to submit the results of the Fourth Quarter Landfill Gas (LFG) Monitoring Event for 2007, performed at the North Wake Landfill on December 27, 2007.

The monitoring was performed in accordance with 15A NCAC 13B.1626(4) at the compliance boundary monitoring probes and on-site structures at the facility. At the facility property boundary, the concentration of methane gas is not to exceed the Lower Explosive Limit (LEL) which is 5 percent by volume (50,000 ppmv). Inside facility structures the concentration of methane gas is not to exceed 25 percent of the LEL (equivalent to 12,500 ppmv).

At each monitoring probe, SCS recorded the subsurface LFG composition (concentrations of methane, carbon dioxide, and oxygen) and pressure using a GEM-500 Infrared Gas Analyzer. Measurements inside facility structures were obtained at critical locations such as conduit penetrations, junction boxes, floor drains, etc. using a Gas-Trac Model No. NGX-6. The results of the probe and on-site structure monitoring are attached as Exhibit 1.

Monitoring was conducted at a total of 26 LFG monitoring probes and 8 on-site structures. LFG monitoring probes M-3, M-22, M-23, M-24, and M-26 exceeded the regulatory limit. The appropriate notification regarding the methane exceedances at probes M-3, M-22, and M-23, M-24, and M-26 was submitted to NCDENR on 1/3/08. The monitoring results indicate that none of the remaining probes exhibited subsurface methane concentrations above the regulatory limit. None of the on-site structures monitored during this event detected significant concentrations of methane.

Based on SCS' discussions with the LFG control system operator, Wake Gas Producers (WGP), we understand the malfunction of a specific system component was identified in mid-December and is suspected to be the cause of these exceedances at select perimeter LFG monitoring probes adjacent to the closed, unlined cell. Upon identifying the problem, WGP

SCS ENGINEERS

EXHIBIT 1. LANDFILL GAS MONITORING PROBES NORTH WAKE LANDFILL - WAKE COUNTY, NORTH CAROLINA

December 27, 2007 02199312.02-2 Sunny, 55°F Date: Project No: Weather:

GEM-500 器 Personnel: Equipment:

Methane (% vol)		QN	Q	Q	Q		Q	Q	Q	QN	QN	Q.		QN	QN		QV		Q	QN	Q		≥ Z		NM	NM	NA.	Z	Z
Interior Monitoring Location	Scale House	Front Office	Bathrooms (2)	Hallway	Kitchen	Admin. Offices	Offices (4)	Reception Area	Bathrooms (2)	Conference Area	Kitchen	Storage Area	Drop Off/Transfer	Office	Service Bay	Maintenance Shop	Service Bay	Equipment Maintenance Trailer	Offices (2)	Bathroom	Conference Area	Field Storage Building (Wake County)	Service Bay	Drop Off/Transfer	Offices (6)	Bathrooms (2)	Conference Area	Break Room/Kitchen	Reception
Pressure	(in-wc)	-1.0	0.0	0.0	-0.1	-3.2	4.0-	0.0	-1.8	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.0	0.0	0.0		
Balance Gas	(oa %)	79.8	79.7	76.3	80.3	82.6	80.4	79.3	80.5	79.3	91.6	79.8	79.7	79.5	79.1	79.0	9.62	79.3	79.4	79.5	79.4	79.6	52.4	70.9	76.6	81.9	37.5		
Oxygen	(lov %)	20.1	20.3	11.9	18.0	3.3	19.5	18.8	17.6	18.0	2.1	19.4	19.5	19.9	19.8	15.3	19.3	16.9	18.3	19.8	20.4	20.4	4.1	10.6	15.3	14.3	6.7		
Carbon Dioxide	(lov %)	0.1	0.0	6.8	1.5	14.0	0.1	1.7	1.7	2.6	4.1	0.8	9.0	0.4	1.0	5.5	1.1	3.6	2.3	0.5	0.1	0.0	16.9	7.4	2.8	3.6	23.6		
Methane	(lov %)	0.0	0.0	5.0	0.2	0.1	0.0	0.2	0.2	0.1	2.2	0.0	0.2	0.2	0.1	0.2	0.0	0.2	0.0	0.2	0.1	0.0	26.6	11.1	5.3	0.2	32.2		
ille Time	(24-hr)	14:57	15:02	15:06	15:10	15:14	15:18	14:35	14:40	14:47	14:03	16:24	15:48	15:53	15:56	16:06	16:02	16:13	16:18	14:10	14:21	14:25	14:30	14:44	14:52	15:22	15:26		
Monitoring Probe	No.	Σ.	₹5	e Z	Α	M 5	M 6R	٧.	8₩	6 X	M 10	M 11	M 12	M 13	№	M 15	M 16	M 17	M 18	M 19	M 20	M 21	M 22	M 23	M 24	M 25	M 26		

Sign Shop Copy/Storage Room Project Room Tool Room Shipping and Receiving

NM = Not Monitored ND = No Detection; Samples below 0.1% (1000 ppm) methane

Notes: